



# ENGINEERING, MANUFACTURING AND INDUSTRIAL TECHNOLOGY

*A Quarterly Newsletter for Teachers and Students Focusing on Recent Events and Developments in the EMIT Pathway*

Office of Career and Technical Preparation

August 2006

Welcome to the July issue of the EMIT Newsletter, published by the Department of Labor & Economic Growth, Office of Career and Technical Preparation (OCTP). It is our desire to keep you informed about events and other useful information to help you as you navigate along the EMIT pathway.

Past issues of this newsletter may be viewed at: [http://www.michigan.gov/mdcd/0,1607,7-122-1680\\_2629\\_2724-101172--,00.html](http://www.michigan.gov/mdcd/0,1607,7-122-1680_2629_2724-101172--,00.html).

You are encouraged to review the information contained herein and pass it along to a colleague to whom it may be useful. Any ideas and/or suggestions should be addressed to Patricia Talbott, (517) 373-0359 or [talbottp@michigan.gov](mailto:talbottp@michigan.gov). If you are not receiving this newsletter via email and would like to do so, please take a minute and send us your email address.

## AUTOMOTIVE INSTRUCTORS

As instructors are aware, all automotive programs that are funded by OCTP must maintain a NATEF certification. One requirement for continued certification is that instructors must receive 20 hours of industry training annually. Gateway Technical College, through a grant from the US Department of Labor-Employment & Training, has developed a **FREE** online opportunity for NATEF certified instructors to fulfill this requirement. Log on to: [www.upgrade2cert.org](http://www.upgrade2cert.org) to take advantage of this excellent opportunity!

## CAD INSTRUCTORS — CHECK THIS OUT!

PTC, the producer of Pro/DESKTOP has offered free training for Pro/Engineer Wildfire 3 Schools Edition. While we are not certain that this free training will be offered again, it will be well worth your time to investigate this CAD drafting package. Instructors who complete the training, which is usually offered at \$350/session, receive a FREE license for 300 seats!

Students who are trained to use their software are allowed to take copies home for installation on their home computers. The software is reputed to be “state of the art, easily comparable to anything else on the market”. A consultant for the company indicates that they are able to make this offer because their target market is corporations and it is to their benefit to have as many students as possible trained on their produce.

Visit:

[www.ptc.com/for/education/schools/training.htm](http://www.ptc.com/for/education/schools/training.htm).

## REMINDER: YES! EXPO 2006

The Michigan Youth Engineering and Science Expo (YES!) is scheduled to be held on November 2, 2006 at Ford Field in Detroit. Michigan Technological University organizes this yearly event, in conjunction with other Michigan universities and sponsoring organizations. The intent of the Expo is to “excite students from varied backgrounds about pursuing an engineering or science education”. Corporate and university exhibitors are present to explain and promote their fields of endeavor. They also distribute tons of free stuff! Last year’s event was a tremendous success, hosting over 10,000 middle and high school students from all around the state and this year’s promises to be even larger. Over 17,500 students are registered to date. Plan on attending and take as many of your students as possible! Get your **FREE** tickets and keep updated by visiting: <http://yes.mtu.edu/>.

## MICHIGAN CENTER FOR CAREER & TECHNICAL EDUCATION (MCCTE)

MCCTE is relocating from Michigan State University to Ferris State University. As of this date, it is unknown whether the resource library will be maintained. Other services that were provided by MSU will be continued by FSU. For those of you who have materials loaned to you by MCCTE/MSU, please return them to the OCTP. Contact information for the MCCTE/FSU will be provided in a future newsletter.

## FREE ONLINE SAFETY TRAINING PROGRAMS

Thanks to a MIOSHA grant, the Associated General Contractors is providing free online construction safety training through September. The 12 training modules are:

- Aerial Lift Safety
- Concrete & masonry
- Construction Orientation Safety
- Excavations, Trenching & Shoring
- Fall Protection
- Fire Safety
- Mobile Crane Safety
- PPE
- Scaffolding Safety
- Stairways & Ladders
- Steel Erection

After September, it will cost \$5.00 per module. Modules may be accessed by visiting [www.mi.agc.org](http://www.mi.agc.org), clicking on “Safety & Health” and following the directions. Those with questions should contact Pete Anderson at (517) 371-1550.

## EMIT RESOURCE LIST

The EMIT pathway maintains a resource list that may be helpful to technology teachers and students. This list is updated periodically and contains many links to sites that we have investigated and found useful. A quick way to access this list is to click on: [http://www.michigan.gov/documents/EMIT\\_Resource\\_List\\_167377\\_7.doc](http://www.michigan.gov/documents/EMIT_Resource_List_167377_7.doc)

During our investigations we typed in the Google search engine, “**free resources for CTE teachers**”. The resulting list of available materials was extensive. Give it a try!

## APPRENTICESHIP OPPORTUNITY

The Michigan Laborers’ Training & Apprenticeship Institute (MLTAI) provides training for persons seeking Journeyman status in their chosen craft. This training is provided free of charge to union Construction Craft Laborers and in most cases, a stipend is provided while the trainee is going through the program. They are located in three locations around Michigan: Iron Mountain, Perry, and Wayne. To qualify a person must:

- Be at least 18 years old
- Undergo drug testing

- Be physically able to complete required tasks
- Have a good attitude
- Be punctual and have good attendance
- Have reliable transportation

To learn more about this opportunity log on to: [www.mltai.org](http://www.mltai.org)

## GEORGE LUCAS EDUCATIONAL FOUNDATION

The GLEF was established in 1991 as a nonprofit to encourage innovation in schools. They document, disseminate, and advocate for “exemplary” programs in K-12 public education to help these practices spread nationwide. Toward that end, they publish stories of innovative teaching and learning techniques through a **free** magazine, CD-ROMs, DVDs, books, etc. They also maintain a website where you are able to participate as a member of an online community of people dedicated to working for better schools. Visit: <http://edutopia.org> to sign up for the magazine and to find out what other materials are available.

## CAREERSAFE PROGRAM

The CareerSafe® program it is an Online Youth Safety Initiative that is a partnership between SkillsUSA and CareerSafe® to help reduce the significant number of youth related injury and death from workplace accidents. The OSHA 10-Hour General Industry and 10-Hour Construction Industry courses will be held (pending OTI approval) on September 1, 2006. The URL for the student program is: <http://campus.careersafeonline.com/index.cfm>.

## TEACHER DISCOUNTS

As educators travel about the states, or around the world for that matter, they may be eligible for discounts at many museums, exhibits, art fairs, etc. In many cases, all that is necessary is to ask if reduced fees are available and to produce a valid piece of identification that indicates the educational institution with whom you are affiliated.

Internationally, we have identified a number of organizations engaged in reducing the cost travel for educators and students. Some of these are:



**Educators Bed & Breakfast Travel Network** — You must join this online network to qualify for discounted stays at over 6,000 fellow members' bed and breakfast establishments in 50 different countries. For a \$10 initiation fee and \$36 annually, you and your immediate family will be able to stay at these locations for \$36 per/night. These websites will get you started: [www.edubabnet.com](http://www.edubabnet.com) or [www.educatorstravel.com](http://www.educatorstravel.com)

**Educational Tours** — Sign up to lead one. Share your knowledge and skills with the possibility of traveling free and earning continuing education credits. Check these websites: [www.explorica.com](http://www.explorica.com), [www.goaheadtours.com](http://www.goaheadtours.com), or [www.eftours.com](http://www.eftours.com)

**Discount Cards** — These cards identify you as a student or a member of the teaching profession. The *ISE Card* (International Student Exchange) provides for worldwide discounts on a variety of items. Teachers are eligible too. It also provides up to \$2,000 in medical benefits, a toll-free twenty-four hour emergency assistance hotline and up to \$2,000 in airline bankruptcy protection. The cost is \$25. Learn more at <http://www.isecard.com/>

**The ITIC (International Teacher Identity) Card** — Called the “freebie magnet” this card is only available to those who are currently teaching. Retirees are not eligible. However, retired educators are free to contact them (800-592-2887) for possible savings on *international travel*. There is an annual fee of \$25, but by using it once it will quickly pay for itself. For additional details, click on this website: [www.travelcuts.com/usa/html/idcards/itic.html](http://www.travelcuts.com/usa/html/idcards/itic.html)

## FUTURE CONFERENCES FOR TEACHERS AND STUDENTS IN THE EMIT PATHWAY

### ARCHITECTURE & CONSTRUCTION PATHWAY:

**Design-Build: Harmony & Rhythm in Project Delivery Conference & Expo**, in Gaylord Opryland, Nashville, TN – October 18-20, 2006  
<http://www.designbuilDEXPO.com>

### MANUFACTURING PATHWAY:

**Tomorrow's Energy** – sponsored by NextEnergy and Society of Manufacturing Engineers, in Detroit/Dearborn, MI, October 23-25, 2006.  
<http://www.sme.org/cgi-bin/get-event.pl?--001646-000007-020002--SME-&id=HOMEPAGE>

## TRANSPORTATION, DISTRIBUTION & LOGISTICS:

**International Technology Education Association (ITEA), 69<sup>th</sup> Annual Conference**, San Antonio, TX, March 15-17, 2007 - Theme: Technology Literacy: A Global Challenge -  
<http://www.iteaconnect.org/G2.html>



## ENGINEERING AND SCIENCE:

**Macromolecules for Sustainable, Safe and Healthy World**, June 10-14, 2007, New York City

This symposium connects the critical role of macromolecules used in the information, nano- and biotechnology communities to a sustainable, safe and healthy world. Factors in sustainability including economics and scarcity will be considered.  
<http://www.engconfintl.org/7ny.html>

Questions, comments, and/or suggestions regarding this newsletter, should be addressed to Patricia Talbott (517) 335-0359 or [talbott@michigan.gov](mailto:talbott@michigan.gov)

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